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(54) Title: A NOVEL POLYPEPTIDE HORMONE PHOSPHATONIN**(57) Abstract**

The present invention relates to a novel human protein called phosphatonin, and isolated polynucleotides encoding this protein. Also provided are vectors, host cells, antibodies, and recombinant methods for producing this human protein. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to this novel human protein.